

WHAT IS CLAIMED IS:

1. A reinforced flexible laminate strip assembly having a strip width and a strip length, comprising:

a plurality of metal reinforcement clips disposed in a spaced pattern including a continuous strand of wire transversely looped back and forth across the strip width in a plurality of adjacent passes to form a first leg, a bend and second leg, wherein said second leg of each pass also forms said first leg of the clip formed in the next pass, said adjacent passes of wire having voids located therebetween, said spaced pattern extending the strip length; and

at least one longitudinal carrier, made of a carrier material, adhesively connected to said plurality of metal reinforcement clips maintaining said spaced pattern of said reinforcement clips.

2. The reinforced flexible laminate strip assembly of Claim 1, further comprising: filler material disposed in said voids.
3. The reinforced flexible laminate strip assembly of Claim 1, further comprising: a cover layer disposed about the plurality of metal reinforcement clips, the at least one longitudinal carrier and the filler material.
4. The reinforced flexible laminate strip assembly of Claim 1, wherein each of said clips has a circular cross-section.

5. The reinforced flexible laminate strip assembly of Claim 1, wherein each of said clips has a polygonal cross-section.

6. The reinforced flexible laminate strip assembly of Claim 1, wherein each of said clips has an oval cross-section.

7. The reinforced flexible laminate strip assembly of Claim 3, further comprising:  
a sealing element connected to said cover layer.

8. The reinforced flexible laminate strip assembly of Claim 1, wherein said laminate strip has a U-shaped profile.

9. The reinforced flexible laminate strip assembly of Claim 3, wherein said strip has a U-shaped profile with two legs; said sealing element being connected to one of said two legs.

10. The reinforced flexible laminate strip assembly of Claim 1, wherein said at least one longitudinal carrier is a plurality of longitudinal carriers made of the same material.

11. The reinforced flexible laminate strip assembly of Claim 1, wherein said at least one longitudinal carrier is a plurality of longitudinal carriers made of different materials.

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12. The reinforced flexible laminate strip assembly of Claim 1, wherein the carrier material is selected from the group consisting of: elastomeric rubber, thermoplastic, high durometer rubber, fiberglass strand, laminated rubber, woven laminate, non-woven laminate and knitted laminate and combinations thereof.

13. The reinforced flexible laminate strip assembly of Claim 1, wherein said first and second legs of said clip are substantially parallel.

14. The reinforced flexible laminate strip assembly of Claim 1, wherein said first and second legs of said clip are inclined at an angle relative to one another so that said first and second legs are closer to one another at said bend.

15. The reinforced flexible laminate strip assembly of Claim 1, wherein said continuous strand of wire has a circular cross-sectional shape.

16. The reinforced flexible laminate strip assembly of Claim 1, wherein said continuous strand of wire has a square cross-sectional shape.

17. The reinforced flexible laminate strip assembly of Claim 1, wherein said continuous strand of wire has a rectangular cross-sectional shape.

18. The reinforced flexible laminate strip assembly of Claim 1, wherein said continuous strand of wire has an oval cross-sectional shape.

19. A method of forming a reinforced flexible laminate strip having a strip length, comprising:

providing a continuous strand of wire;

bending said continuous strand of wire transversely back and forth across the width of said strip in a plurality of adjacent passes to form a plurality of uniformly spaced interconnected metal reinforcement clips each having a first leg, a bend and second leg, wherein said second leg of each pass also forms said first leg of the clip formed in the next pass, said adjacent passes of wire having voids located there between, said interconnected metal reinforcement clips extending the strip length; and

attaching at least one longitudinal carrier member substantially transversely to said adjacent passes of wire thereby maintaining said spacing of said reinforcement clips; said at least one carrier member running along said strip length.

20. The method of forming a reinforced flexible laminate strip assembly of Claim 19, further comprising:

filling the voids with a filler material to form flexible laminate strip.

21. The method of forming a reinforced flexible laminate strip assembly of Claim 20, further comprising:

extruding a sealing element adjacent and connected to said filler layer.

22. The method of forming a reinforced flexible laminate strip assembly of Claim 19, further comprising:

bending said uniform strip into a U-shaped profile having two legs.

23. The method of forming a reinforced flexible laminate strip assembly of Claim 19, further comprising:

connecting said sealing element to one of said two legs of said U-shaped profile.

24. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said step of attaching at least one longitudinal carrier further comprises the step of:

attaching a plurality of longitudinal carriers of the same longitudinal carrier material.

25. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said step of attaching at least one longitudinal carrier further comprises the step of:

attaching a plurality of longitudinal carriers of different longitudinal carrier materials.

26. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein the longitudinal carrier material is selected from the group consisting of: elastomeric rubber, thermoplastic, high durometer rubber, fiberglass strand, laminated

rubber, woven laminate, non-woven laminate, knitted laminate and combinations thereof.

27. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said first and second legs of said clips are substantially parallel.

28. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said first and second legs of said clips are inclined at an angle relative to one another so that said first and second legs are closer to one another at said bend.

29. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said continuous strand of wire has a circular cross-sectional shape.

30. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said continuous strand of wire has a polygonal cross-sectional shape.

31. The method of forming a reinforced flexible laminate strip assembly of Claim 19, wherein said continuous strand of wire has an oval cross-sectional shape.

32. The method of forming a reinforced flexible laminate strip assembly of Claim 19, further comprising the step of:

extruding a cover layer around the strand wire, the at least one carrier member and the filler material.